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Published on SBIR.gov (<https://www.sbir.gov>)

[1. MDA12-020: Methodologies for Realtime Correction of Water Vapor Effects on an Infrared Scene](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop software tools to remove, in real time, the effects of atmospheric water vapor of an infrared scene. DESCRIPTION: The ability to accurately determine characteristics of an infrared scene depends on compensation for the effects of water vapor in the medium between the sensor and the scene. This SBIR deals specifically with the effects due to water vapor between an obser ...

SBIR Missile Defense Agency

[2. MDA12-021: Lightweight Communication Equipment for Interceptor Communications](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a light weight and low power communication system to enable small kill vehicle communications in flight. DESCRIPTION: Current light weight kill vehicles have limited data communication abilities once separated from the interceptor missile. To enable longer range intercepts with smaller kill vehicles, communication equipment needs to be made smaller, lighter, and more p ...

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[3. MDA12-022: Miniature Extendable Nozzles or Actuating Nozzles for Improved ISP of DACS Thrusters](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Missile Defense Agency (MDA) is seeking innovative solutions for improving the specific impulse (ISP) of kill vehicle Divert and Attitude Control Thrusters (DACS) Thrusters. This topic should focus on low-weight methods of extending or actuating DACS size nozzles to increase expansion ratio with high reliability. Discussions of alternative solutions are welcome. DESCRIPT ...

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[4. MDA12-023: Powdered Propellant Rocket Motor](#)

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an innovative method of delivering, injecting, and igniting a powdered solid propellant to a combustion chamber in a controlled manner under an accelerating reference frame or in microgravity. DESCRIPTION: Multiple concepts have been proposed to create a system that has the safety and storage capabilities of a solid rocket motor (SRM) system while having the thrust cont ...

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5. [MDA12-024: Waste Heat Recovery of Rocket Motors for Reduction of Battery Weight](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: The Missile Defense Agency (MDA) is seeking innovative solutions for recovering waste heat left in the insulation surrounding a solid rocket motor (SRM) or liquid rocket motor combustion chamber and converting it into electricity to recharge batteries for long flight missions resulting in a reduction in the total battery weight needed. This may result in a net reduction in mass of the ...

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6. [MDA12-025: Affordable Reinforced Polymer Composite Structures with Embedded Electrical Interfaces](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate carbon fiber reinforced polymer (CFRP) composite missile structures with incorporated power and signal transporting capability throughout a weapon system and to system subcomponents. These technologies should be affordable and yield increased volumetric efficiency, reduced maintenance requirements, improved reliability, and reduced system weight. Additionally, t ...

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7. [MDA12-026: Marking of Components for Avoidance of Counterfeit Parts](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate capability for guaranteeing authenticity of critical electronic components in MDA hardware. Ensure that physical marking techniques are sufficiently robust to withstand handling through supply chain intermediaries and program installation and maintenance processes. Demonstrate confidence in the marking process as a viable, affordable, reliable method of increa ...

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8. [MDA12-027: Thermal Isolation of Nozzle Exit Cone Insulators](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate methods for thermally isolating a nozzle exit cone from its housing and the associated bondline joint. DESCRIPTION: One of the limitations of a rocket motor nozzle is the heat transfer from the exit cone to the housing and bondline joint during firing and heat soak. This is especially true of a dual pulse rocket motor with an inter-pulse delay (IPD) t ...

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[9. MDA11-T001: Develop Accelerated High Power RF MEMs Switch and Phase Shifter Reliability Test Methodologies](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: This topic seeks to identify and develop high-power Radio Frequency Micro Electro-Mechanical Systems (RF-MEMS) accelerated reliability test methodologies to reduce technology acceptance time for switched phase shifters that utilize capacitive or contact RF MEMS switches. Currently, life testing conducted on RF MEMs switching devices requires significant time and cost due to a lack of ph ...

STTR Missile Defense Agency

[10. MDA11-T002: Defect Reduction Techniques for Large Format Infrared Detector Materials](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The overall objective of this effort is to develop innovative solutions to significantly decrease the defect and dislocation sizes and densities in large format ($>25 \text{ cm}^2$) II-VI compound semiconductor infrared detector materials. Emphasis shall be given to detectors operating in the short through mid-long wavelength regime (~ 10 micron cut-off).
DESCRIPTION: The Missile Defense Agency ...

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